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| **UNIT 2 TEST** | Unit 2 Test | **BLM 2-33** |
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# Goal • Demonstrate understanding of concepts in Unit 2.

**What to Do**

Answer the following questions.

**Matching**Write the letter, from column B, in front of the correct definition in column A.

**A B**

\_\_\_\_\_ 1. Planting a crop without cultivating soil A. zero tillage

\_\_\_\_\_ 2. Parent material B. tamarack

\_\_\_\_\_ 3. Tree that loses its needles every winter C. dandelion

\_\_\_\_\_ 4. Process of restoring logged areas D. reforestation

\_\_\_\_\_ 5. Plant that produces linseed oil. E. rocks, clay, sand

\_\_\_\_\_ 6. Plant that is grown in Alberta for use in making cooking oils, F. canola  
 among other things. H. flax

\_\_\_\_\_ 7. Well-known introduced species.

**A B**

\_\_\_\_\_ 8. canola A. Softwood trees that have needles and cones

\_\_\_\_\_ 9. seaweed B. Source of hardwood

\_\_\_\_\_ 10. hemp C. World's oldest cultivated fibre crop

\_\_\_\_\_ 11. flax D. Used to make linen

\_\_\_\_\_ 12. conifers E. Plant used to feed livestock

F. Most of the vegetable oil produced in Canada

comes from this plant

G. Source of agar, alginate, and carageenan

**True or False**

In the space provided, indicate whether each statement is true (T) or false (F).

\_\_\_\_\_13. Planting trees in your backyard is one way to reduce pollution.

\_\_\_\_\_14. Plants produce oxygen during photosynthesis.

\_\_\_\_\_15. Plants release water through stomata.

\_\_\_\_\_16. Soil is needed in order for germination to occur.

\_\_\_\_\_17. Soil spaces should be completely filled with water to improve growing conditions.

\_\_\_\_\_18. As topsoil becomes darker in colour, it indicates a loss of organic matter.

\_\_\_\_\_19. Plants help reduce excess oxygen and replenish carbon dioxide levels in the environment.

\_\_\_\_\_20.Coal comes from dead plants.

\_\_\_\_\_21. Pesticide use in farming can affect pesticide residue in the Arctic.

\_\_\_\_\_22. Dandelions have one deep root with many root hairs. The main root is called a taproot.

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**Multiple Choice**

Choose the option that best answers the question or completes the statement.

1. Hemp crops can be used to:
2. produce fibres excellent for clothing and paper production.
3. increase soil’s fertility as it grows.
4. reduce competing plants (weeds) in a field
5. both (a) and (c)

1. Poppies are grown to produce the following medicines:
2. opium
3. aspirin
4. morphine
5. both (a) and (c)
6. all of the above
7. Soil spaces for air are created by adding \_\_\_\_\_\_\_\_\_\_, and spaces for water are created by adding \_\_\_\_\_\_\_\_\_\_.
8. vermiculite, peat moss
9. peat moss, vermiculite
10. perlite, peat moss
11. both (a) and (c) above
12. all of the above
13. A plant in the \_\_\_\_\_\_\_\_\_\_ will lose less water than one in the \_\_\_\_\_\_\_\_\_\_.
14. shade, Sun
15. Sun, shade
16. water, sand
17. topsoil, sand
18. 12-14-18 fertilizer contains 18% of this nutrient:
19. nitrogen
20. phosphorus
21. potassium
22. sulphur
23. The growing part of a tree stem is:
24. cambium
25. xylem
26. phloem
27. heartwood

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1. The tissue containing vessels that transport water up the plant from roots to leaves  
   is called:
2. cambium
3. xylem
4. phloem
5. heartwood
6. What is the part of the pistil in which eggs are produced?
7. stamen
8. anther
9. ovary
10. sepal
11. Letting geese (who do not like strawberries) eat chickweed between the strawberry plants is  
    an example of:
12. biological controls
13. biotechnology
14. crop rotation
15. chemical control
16. Technology that involves growing plants without soil:
17. greenhouses
18. hydroponics
19. sustainability
20. zero tillage
21. The sprouting of a seed is called:
22. germination
23. fertilization
24. pollination
25. biotechnology
26. Which process do plants remove carbon dioxide from the air?

(a) transpiration

(b) respiration

(c) photosynthesis

(d) diffusion

1. Organisms containing chlorophyll produce food through which of the following processes?

(a) osmosis

(b) transpiration

(c) photosynthesis

(d) germination

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1. Bill wanted to see if one apple tree could produce a many different varieties of apples. Which of the following technologies is most appropriate for this task?

(a) selective breeding

(b) genetic modification

(c) grafting

(d) hydroponics

1. A natural ecosystem has...

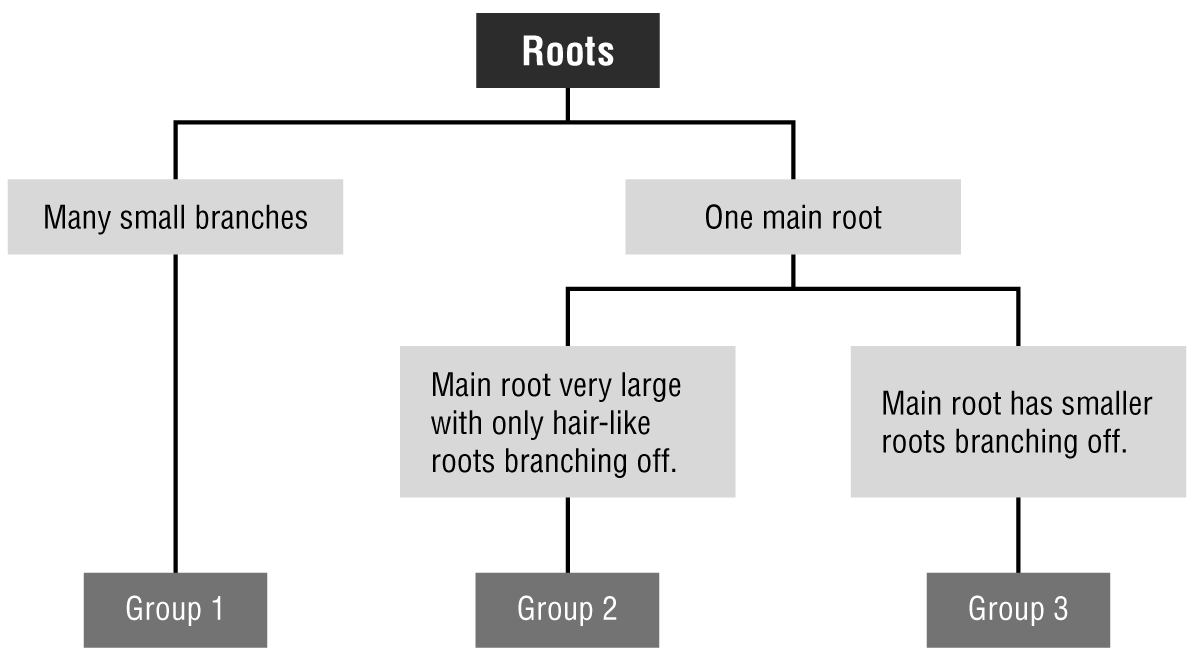
(a) the same species at different ages.

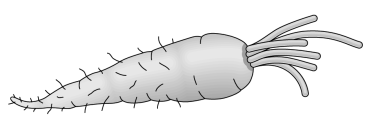
(b) the same species that are all the same age.

(c) a diversity of species that are all the same age.

(d) a diversity of species at different ages.

1. In a book Amy found a classification system used by plant scientists to group root types.



 Amy pulled this root out of her garden.

In which group does Amy's root belong?

(a) 1

(b) 2

(c) 3

(d) This root was not found in this key.

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1. Ming listed possible solutions to pest concerns.

1. Spraying canola fields with higher concentrations of pesticides more often each season.

2. Rotating crops so that pests of one kind do not build up in any one field.

3. Summer fallowing farmland more often.

According to your scientific knowledge, list these solutions from best to worst from an environmental standpoint.

(a) 3, 2, 1

(b) 2, 3, 1

(c) 2, 1, 3

(d) 3, 1, 2

1. Which of the following are *not* key decomposers in the soil?

(a) wasp larvae

(b) bacteria

(c) fungi

(d) earthworms

1. Soil that feels smooth is most likely is based on what type of parent material?

(a) sand

(b) clay

(c) humus

(d) pebbles

**Short Answer**

1. Give one advantage and one disadvantage of:  
   (a) zero tillage

(b) irrigation

(c) summer fallowing

(d) chemical pesticides

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1. (a) Explain the meaning of sustainability.

(b) Why is it important?

1. Differentiate between clear-cutting and selective logging.

1. Differentiate between osmosis and diffusion.

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